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<141> 2007-12-21

<141> 2005-05-09

<150> PCT/BE03/00194

<151> 2003-11-07

<150> PCT/EP03/07313

<151> 2003-07-08

<150> PCT/EP03/06581

<151> 2003-06-23

<150> EP 03447005.4

<151> 2003-01-10

<150> US 60/425,073

<151> 2002-11-08

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Asp Tyr
            20                  25                  30

Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Arg Ile Leu Trp Thr Gly Ala Ser Arg Ser Tyr Ala Asn Ser Val
    50                  55                  60

Asp Gly Arg Phe Thr Val Ser Thr Asp Asn Ala Lys Asn Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Leu Pro Ser Asn Ile Ile Thr Thr Asp Tyr Leu Arg Val Tyr
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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<210> 2

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<213> Lama glama

<400> 2

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Thr Val Gln Ala Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Asn Tyr
20 25 30

Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Arg Ile Lys Trp Ser Gly Gly Ser Arg Ser Tyr Ala Asn Ser Val
50 55 60

Asp Gly Arg Phe Thr Val Ser Thr Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Leu Pro Ser Asn Ile Ile Thr Thr Asp Tyr Leu Arg Val Tyr Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

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<213> Lama glama

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ala Gly Ile Ser Gly Ser Val Phe

20 25 30

Ser Arg Thr Pro Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg
35 40 45

Glu Leu Val Ala Gly Ile Leu Thr Ser Gly Ala Thr Ser Tyr Ala Glu
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr
65 70 75 80

Val Tyr Leu Gln Met Asn Ser Leu Ser Pro Glu Asp Thr Ala Glu Tyr
85 90 95

Tyr Cys Asn Thr Tyr Pro Thr Trp Val Leu Ser Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
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<210> 4

<211> 118

<212> PRT

<213> Lama glama

<400> 4

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ala Gly Ile Ser Gly Ser Val Phe
20 25 30

Ser Arg Thr Pro Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg
35 40 45

Glu Leu Val Ala Gly Ile Leu Ser Ser Gly Ala Thr Val Tyr Ala Glu
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr
65 70 75 80

Val Tyr Leu Gln Met Asn Ser Leu Ser Pro Glu Asp Thr Ala Glu Tyr
85 90 95

Tyr Cys Asn Thr Tyr Pro Thr Trp Val Leu Ser Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 5

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<212> PRT

<213> Lama glama

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ala Gly Ile Ser Gly Ser Val Phe
20 25 30

Ser Arg Thr Pro Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg
35 40 45

Glu Leu Val Ala Gly Ile Leu Ser Ser Gly Ala Thr Ala Tyr Ala Glu
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr
65 70 75 80

Val Tyr Leu Gln Met Asn Ser Leu Ser Pro Glu Asp Thr Ala Glu Tyr
85 90 95

Tyr Cys Asn Thr Tyr Pro Thr Trp Val Leu Ser Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 6

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<212> PRT

<213> Lama glama

<400> 6

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Glu
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Gly Ile Phe Arg Phe Asn
            20                  25                  30

Ala Gly Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
        35                  40                  45

Ala Phe Ile Gly Val Asp Asn Thr Thr Arg Tyr Ile Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Gln Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
                85                  90                  95

Lys Val Pro Tyr Ile Asp Trp Gly Gln Gly Thr Gln Val Thr Val Ser
            100                 105                 110

Ser
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<212> PRT

<213> Lama glama

<400> 7

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Thr Tyr
            20                  25                  30

Asn Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Gly Ile Ser Trp Asn Gly Gly Ser Ile Tyr Tyr Thr Ser Ser Val
    50                  55                  60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys
                85                  90                  95

Ala Ser Lys Gly Arg Pro Tyr Gly Val Pro Ser Pro Arg Gln Gly Asp
            100                 105                 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125
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<210> 8

<211> 126

<212> PRT

<213> Lama glama

<400> 8

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Thr Tyr
            20                  25                  30

Asn Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Gly Ile Ser Trp Asn Gly Gly Ser Ile Tyr Tyr Thr Ser Ser Val
```

```
    50                  55                  60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys
                85                  90                  95

Ala Ser Lys Gly Arg Pro Tyr Gly Val Pro Ser Pro Arg Gln Gly Asp
            100                 105                 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125
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<210> 9

<211> 126

<212> PRT

<213> Lama glama

<400> 9

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ile Tyr
            20                  25                  30

Asn Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ala Ile Ser Trp Asn Gly Gly Ser Ile Tyr Tyr Thr Ser Ser Val
    50                  55                  60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Ile Asn Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys
                85                  90                  95

Ala Ser Lys Gly Arg Pro Tyr Gly Val Pro Ser Pro Arg Gln Gly Glu
            100                 105                 110
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Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 10

<211> 126

<212> PRT

<213> Lama glama

<400> 10

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Asn Ile Tyr
20 25 30

Asn Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Asp Phe Val
35 40 45

Ala Ala Ile Ser Trp Asn Gly Gly Ser Ile Tyr Tyr Thr Ser Ser Val
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys
85 90 95

Ala Ser Lys Gly Arg Pro Tyr Gly Val Pro Ser Pro Arg Gln Gly Asp
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 11

<211> 126

<212> PRT

<213> Lama glama

<400> 11

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Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Asn Asn Tyr
            20                  25                  30

Asn Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ala Ile Ser Trp Asn Gly Gly Ser Thr Tyr Tyr Asp Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Asn Asn Leu Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Asn Phe Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Cys Ala Ala Asn Pro Tyr Gly Ile Pro Gln Tyr Arg Glu Asn Arg
            100                 105                 110

Tyr Asp Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125
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<210> 12

<211> 126

<212> PRT

<213> Lama glama

<400> 12

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Asp Asn Tyr
            20                  25                  30
```

```
Asn Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Ala Ile Ser Trp Asn Gly Gly Ser Thr Tyr Tyr Asp Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Phe Gln Lys Leu Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Leu Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Cys Ala Ala Asn Pro Tyr Gly Ile Pro Gln Tyr Arg Glu Asn Arg
            100                 105                 110

Tyr Asp Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125
```

<210> 13

<211> 128

<212> PRT

<213> Lama glama

<400> 13

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Gln Val Gln Leu Val Glu Ser Gly Gly Arg Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ile Ala Ser Gly Arg Thr Ile Ser Asp Tyr
            20                  25                  30

Ala Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Leu
        35                  40                  45

Ala Ser Val Thr Trp Gly Phe Gly Ser Thr Ser Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asp Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Thr Leu Glu Pro Asp Asp Thr Ser Val Tyr Tyr Cys
```

85 90 95

Ala Ser Ser Pro Arg Tyr Cys Ala Gly Tyr Arg Cys Tyr Val Thr Ala
100 105 110

Ser Glu Phe Asp Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 14

<211> 128

<212> PRT

<213> Lama glama

<400> 14

Gln Val Lys Leu Glu Glu Ser Gly Gly Arg Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ile Ala Ser Gly Arg Thr Ile Ser Asp Tyr
20 25 30

Ala Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Leu
35 40 45

Ala Ser Val Ser Trp Gly Phe Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asp Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Thr Leu Glu Pro Asp Asp Thr Ser Val Tyr Tyr Cys
85 90 95

Ala Ser Ser Pro Arg Tyr Cys Ala Gly Tyr Arg Cys Tyr Ala Thr Ala
100 105 110

Ser Glu Phe Asp Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 15

<211> 128

<212> PRT

<213> Lama glama

<400> 15

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Gln Val Gln Leu Gln Glu Ser Gly Gly Arg Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ile Ala Ser Gly Arg Thr Ile Ser Asp Tyr
            20                  25                  30

Ala Ala Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Leu
        35                  40                  45

Ala Ser Val Thr Trp Gly Phe Gly Ser Thr Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Lys Ala Lys Asp Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Thr Leu Glu Pro Asp Asp Thr Ser Ala Tyr Tyr Cys
                85                  90                  95

Ala Ser Ser Pro Arg Tyr Cys Ala Gly Tyr Arg Cys Tyr Val Thr Ala
            100                 105                 110

Ser Glu Phe Asp Ser Trp Gly Pro Gly Thr Gln Val Thr Val Ser Ser
        115                 120                 125
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<210> 16

<211> 126

<212> PRT

<213> Lama glama

<400> 16

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Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1               5                   10                  15
```

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Phe Ser Ser Tyr
            20                  25                  30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu His Glu Phe Val
        35                  40
```